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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,088	06/27/2003	Gregory J. Ward	12598.0144.NPUS00	7547
.23294	7590 05/04/2006		. EXAMINER	
JONES, TULLAR & COOPER, P.C.			SACKEY, EBENEZER O	
	266 EADS STATION N, VA 22202	•	ART UNIT	PAPER NUMBER
	,		1626	
			DATE MAILED: 05/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/609,088	WARD ET AL.				
		Examiner	Art Unit				
-		EBENEZER SACKEY	1626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHI - Ext afte - If N - Fai Any	HORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DEPOYS OF	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 21 F	February 2006.					
2a)[This action is FINAL . 2b)⊠ This action is non-final.						
3)□	, ,						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposi	tion of Claims						
4)⊠)⊠ Claim(s) <u>1-6,8-11 and 15-39</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) <u>1-6,11,15-20 and 80</u> is/are allowed.						
6)⊠	Claim(s) 21-39 is/are rejected.						
7)🖂	Claim(s) 11 and 32 is/are objected to.						
8)□	Claim(s) are subject to restriction and/or election requirement.						
Applicat	tion Papers						
9) The specification is objected to by the Examiner.							
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
a,	1. Certified copies of the priority documents have been received.						
	Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
		·					
Attachmer	nt(s)						
_	ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				

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DETAILED ACTION

Status of Claims

This is in response to applicant's amendment filed 02/21/06.

Claims 1-6, 8-11 and 15-39 are pending.

Claims 7 and 12-14 have been cancelled.

Claims 1 and 21 have been amended.

Claim Rejections - 35 USC § 112

The rejection of claims 1-5, 8-11, 15-20, 22-24, 26-33 and 35-39 under 35 U.S.C. 112, first paragraph and claims 1-6, 8-11, 15-16 and 18-39 under 122, second have been withdrawn.

Response to Amendment

Applicant's arguments filed 02/21/06 have been fully considered but they are not deemed fully persuasive. The rejection of claims under 112, first and second paragraphs have been withdrawn. Thus, arguments to those rejections are moot.

Claim Rejections - 35 U.S.C. § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

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to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

- 2. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 21-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevens et al., (U.S.Patent number 3,185,636) and Shibano et al., (U.S.Patent number 4,625,059) in combination for the reasons set forth in the last office action mailed on 11/15/05.

Response to Amendment

Applicant's arguments filed 02/21/06 have been fully considered but they are not deemed fully persuasive.

Applicants argue that there is no teaching or suggestion in the Stevens et al., (636) reference that trace amounts of acrolein can remain in the process stream. In response, this argument is incorrect because Stevens et al., teach the removal of acrolein from an acrylonitrile stream. See column 1, lines 15-21. The only missing element from Stevens et al., is the use of an acid catalyst and a reactable thiol in the

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process. This missing element is provided by Shibano et al.,(059) who teach that compounds containing a mercapto group in its molecule react with aldehyde impurities (-CHO) very selectively. Since acrolein contains an aldehyde terminal group, one of ordinary skill would have a reasonable expectation of success in employing the acid catalyst and thiol containing compound of Shibano et al., in the process of Stevens et al., to arrive at the instantly claimed process. Therefore, at the time of filing this application, one of ordinary skill in possession of the two references (636) and (059) would have been in possession of the instant invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Sackey whose telephone number is (571) 272-0704.

The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane, can be reached on (571) 272-0699. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is

(571) 272-1600.

EOS

April 29, 2006

Joseph K. McKane

Supervisory Patent Examiner Art Unit 1626, Group 1600

Technology Center 1